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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,017	04/08/2004	Andrew William McLauchlin	1330.1093D	7565

21171 7590 10/03/2006

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EXAMINER

SAEED, USMAAN

ART UNIT	PAPER NUMBER
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2166

DATE MAILED: 10/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/820,017	MCLAUCHLIN, ANDREW WILLIAM	
	<b>Examiner</b>	<b>Art Unit</b>	
	Usmaan Saeed	2166	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 08 April 2004.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>04/08/2004</u> .  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. Claims 1-12 are pending in this office action.

#### ***Information Disclosure Statement***

2. Applicants Information Disclosure Statement, filed 04/08/2004, has been received, entered into record and partially considered. The copies of NPL cited on the IDS have not been provided. See attached form PTO-1449.

#### ***Claim Rejections - 35 USC § 112***

3. Claims 1, 4, 7 and 10 recite the limitation "the application systems". There is insufficient antecedent basis for this limitation in the claims.

#### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2, 4-5, 7-8, and 10-11 are rejected under 35 U.S.C. 102(e) as being anticipated by **Matthew Morgenstern (Morgenstern hereinafter)** (U.S. Patent No. 5,970,490).

With respect to claim 1, **Morgenstern teaches a method, comprising:**

**“surveying a data source”** as a system user 8 may access the information bridge 1 in a variety of ways. One way of accessing uses an optional browser 10, shown as a graphical interface to view and browse the combined uniform schema 11 and data obtained from multiple data sources 2, 4, and 6 (**Morgenstern Col 5, Lines 49-53**).

**“dynamically generating a point of access user interface, an application database, a reporting database, a baseline data schema based on the data source”** as the Database Integration System (DAISy) of the present invention provides both high-level user interfaces and program level access across heterogeneous databases (HDBs), allowing integration of a wide variety of information resources including relational and object databases (**Morgenstern Col 3, Lines 7-11**). One way of accessing uses an optional browser 10, shown as a graphical interface to view and browse the combined uniform schema 11 and data obtained from multiple data sources 2, 4, and 6 (**Morgenstern Col 5, Lines 49-53**) (**Morgenstern Figures 1 and 2**).

**“enabling interoperability among the application systems using the baseline data schema”** as previous related work in the database field can be grouped

Art Unit: 2166

roughly into three areas: access to heterogeneous databases (HDBs), schema integration, and object encapsulation of existing systems. Access to HDBs: Language features for multidatabase interoperability include variables which range over both data and metadata, including relation and database names, and expanded view definitions with provisions for updatability (**Morgenstern** Col 2, Lines 20-27).

**“mapping the application systems to the baseline data schema”** as in all cases, the data is mapped to an intermediate internal format. This also provides reusability of each information mediator to support multiple applications (**Morgenstern** Col 3, Lines 27-30 & Figure 1).

**“providing access to the application systems via the point of access using the application database and the reporting database”** as figures 1 and 2 (**Morgenstern** Figures 1 and 2).

With respect to claim 2, **Morgenstern** teaches **“the method as recited in claim 1 wherein the surveying of the data source is initiated on demand”** as a system user 8 may access the information bridge 1 in a variety ways. One way of accessing uses an optional browser 10, shown as a graphical interface to view and browse the combined uniform schema 11 and data obtained from multiple data sources 2, 4, and 6 (**Morgenstern** Col 5, Lines 49-53). Examiner interprets that user is initiating access/survey as on demand.

Claim 5 is same as claim 2 and is rejected for the same reasons as applied hereinabove.

With respect to claim 4, **Morgenstern teaches a method, comprising:**

**“surveying a data source”** as a system user 8 may access the information bridge 1 in a variety ways. One way of accessing uses an optional browser 10, shown as a graphical interface to view and browse the combined uniform schema 11 and data obtained from multiple data sources 2, 4, and 6 (**Morgenstern Col 5, Lines 49-53**).

**“capturing changes to the data source”** as providing an interoperability assistant module with specifications for transforming the source data, transforming the source data into a common intermediate representation of the data using the specifications, transforming the intermediate representation of the data into a specialized target representation using the specifications (**Morgenstern Col 2, Lines 63-67**).

**“dynamically updating a point of access user interface based on the changes to the data source”** as constraints are used to make the active metadata repository respond to changes and events and to initiate actions dynamically (**Morgenstern Col 36, Lines 57-59**) (**Morgenstern Figures 1 and 2**).

**“dynamically updating an application database and a reporting database based on the changes to the data source”** as constraints are used to make the active metadata repository respond to changes and events and to initiate actions dynamically (**Morgenstern Col 36, Lines 57-59**) (**Morgenstern Figures 1 and 2**).

**“dynamically updating an interoperability engine baseline data schema based on the changes to the data source”** as constraints are used to make the active metadata repository respond to changes and events and to initiate actions dynamically (Morgenstern Col 36, Lines 57-59). Schema Integration: Database design tools have been applied to schema integration, and related work formalizes interdatabase dependencies and schema merging (Morgenstern Col 2, Lines 36-48) (Morgenstern Figures 1 and 2).

**“allocating space in the application database for the changes to the data source”** as figures 1 and 2 reference numeral 70 (Morgenstern Figures 1 and 2).

**“applying an integration unit mapping the application systems to the baseline data schema”** as previous related work in the database field can be grouped roughly into three areas: access to heterogeneous databases (HDBs), schema integration, and object encapsulation of existing systems. Access to HDBs: Language features for multidatabase interoperability include variables which range over both data and metadata, including relation and database names, and expanded view definitions with provisions for updatability (Morgenstern Col 2, Lines 20-27).

**“providing access to the application systems via the point of access using the application database and the reporting database”** as figures 1 and 2 (Morgenstern Figures 1 and 2).

Claims 7-8 and 10-11 are essentially the same as claim 1-2 and 4-5, except they set forth the claimed invention as a product on a computer readable storage medium and are rejected for the same reasons as applied hereinabove.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 6, 9, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Matthew Morgenstern** (U.S. Patent No. 5,970,490) as applied to claims 1-2, 4-5, 7-8, and 10-11 in view of **Yudenfriend et al.** (**Yudenfriend** hereinafter) (U.S Patent No. 6,338,151).

With respect to claim 3, **Morgenstern** does not explicitly teach, **"the method as recited in claim 1, wherein the surveying of the data source is regularly initiated."**

However, **Yudenfriend** discloses **"the method as recited in claim 1, wherein the surveying of the data source is regularly initiated"** as the collected data is



Art Unit: 2166

further examined at regular intervals to determine if one or more actions are to be taken (**Yudenfriend** Col 10, Lines 44-46).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Yudenfriend's** teachings would have allowed **Morgenstern** to provides up to date or current data source with current schema by examining the data source at regular intervals.

Claim 6 is same as claim 3 and is rejected for the same reasons as applied hereinabove.

Claims 9 and 12 are essentially the same as claim 3 and 6, except they set forth the claimed invention as a product on a computer readable storage medium and are rejected for the same reasons as applied hereinabove.

### ***Conclusion***

6. The prior art made of record and not replied upon is considered pertinent to applicant's disclosure is listed on 892 form.

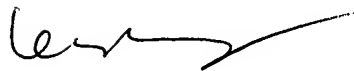
### ***Contact Information***

Art Unit: 2166

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Usmaan Saeed whose telephone number is (571)272-4046. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571)272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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Art Unit: 2166



US  
September 28, 2006